



# **Summary of EPA's Sampling and Monitoring Activities**

## **Deepwater Horizon Incident**

### **May 20, 2010**

**Data Reporting Period:**  
May 18, 2010 2400 – May 19, 2010 0000



<b>Legend</b> Point Location Oil Rig Sediment Surface Water <small>Oil Rig: 20100618 02-08 Oil Rig: 20100617 02-08</small>				 		 <b>US EPA REGION 6 START-3</b> (For Official Use Only)	
<b>Sampling Locations Map</b>						Date Created: 5/18/2010	UIC: R520
						SCALE:	



# Samples

	<b>SUMMA Canisters</b>	<b>PQ200 (PM 2.5)</b>	<b>Water*</b>	<b>Sediment</b>	<b>TOTALS for Reporting Period</b>	<b>TOTALS to date</b>
<b>Collected</b>	6	6	0	0	12	523
<b>Shipped</b>	6	6	0	0	12	507

\* Transition period was 5/19.



# Dispersant Application

	<b>TOTALS for Reporting Period</b>	<b>TOTALS to date</b>
<b>Surface</b>	3,350	604,066
<b>Subsurface</b>	3,463	58,852

•



# Air Monitoring Data

	CO (ppm)	H2S (ppm)	OXYs (%)	PM10 (ug/m3)	VOCs (ppm)
C02	-	-	20.83	30.18	0.2238
C04	-	-	20.88	16.12	0.2160
C05	-	-	20.87	15.65	1.516
V02	0.7923	0.1000	20.56	22.36	0.1000
V03	0.000	0.1000	20.76	18.00	0.7889
V05	0.1000	0.1222	20.29	28.71	0.1000

\* Data shown above is a 24-hour average

"-" indicates no data collected

## Action Levels:

VOCs = 10 ppm; OXY (Oxygen) = acceptable range 19.5-23.5%,

PM10 (particulates) = 150 ug/m3; H2S = 0.5 ppm; CO = 35 ppm

Note: Action Levels based on OSHA PEL (VOCs and OXY), ATSDR Risk-Based Exposure Levels (PM10), and NIOSH RELs (H2S and CO)



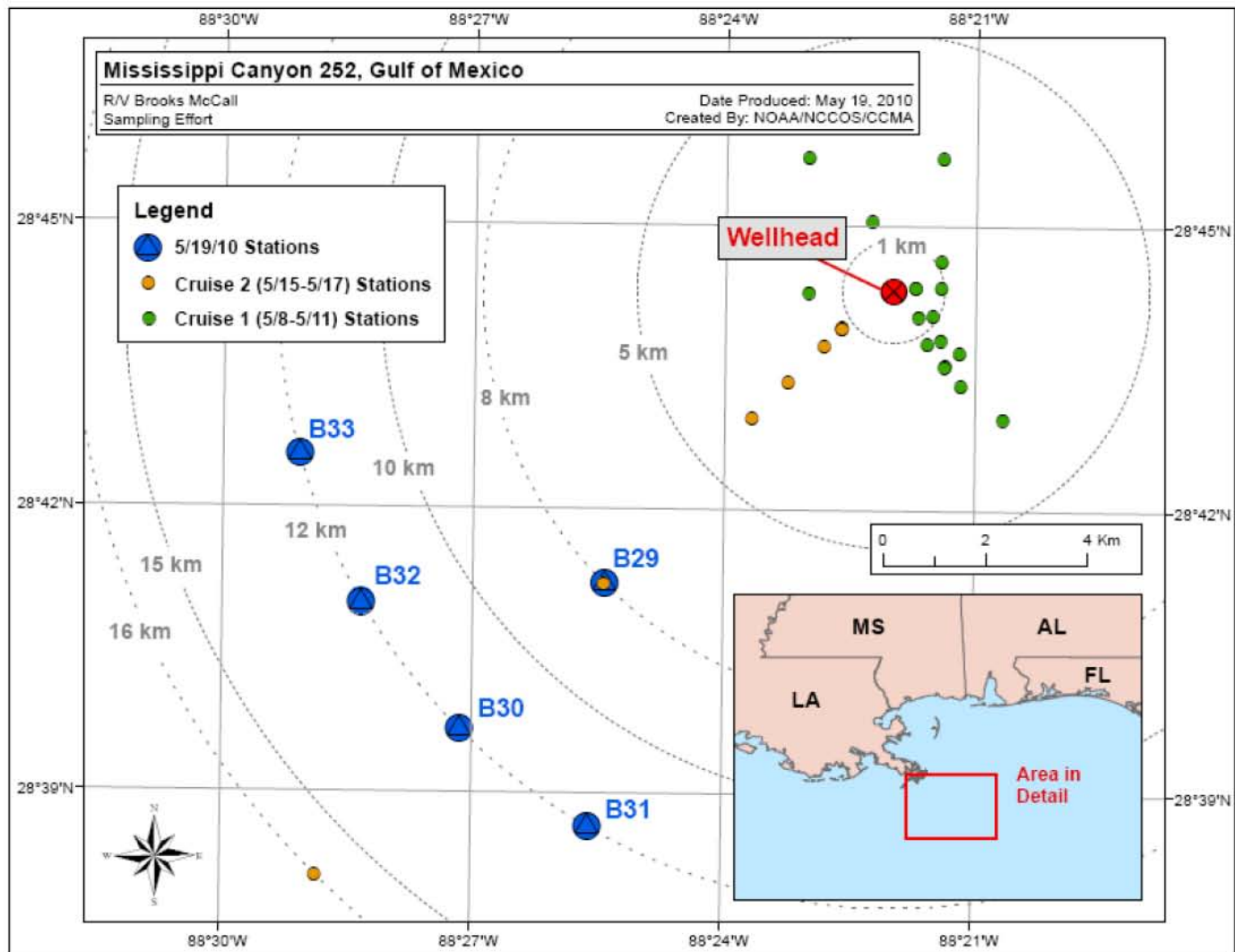
# Action Level Exceedences

- There are no reported air monitoring exceedences for this reporting period.





# Brooks McCall Sampling Effort





# Brooks McCall Data

- Brooks McCall returned to station I the late evening of 5/18
- It appears that the leading edge of the SW oriented plume has been located and pinches out at a distance of 12 km at around 1000 meters depth.
- DO levels measured via the in-situ SBE probe appear to be consistent with historical Gulf values of 3 - 6 mg/l. Colorimetric measures continue to provide lower values.
- Toxicity values were not determined during this period. Data will be available on 5/21





# ASPECT Photograph



Burning was somewhat out of control, but effective in removing oil



# TAGA

- TAGA 1554 was fitted with the Atmospheric Pressure Chemical Ionization (APCI) source to detect the components of oil dispersants.
- On 5/18, TAGA performed mobile monitoring for oil dispersant compounds in Southern LA – Slidell, LA to Grand Isle, LA. A few of the dispersant compounds were detected, but are believed to be associated with a painting shop. (The compounds detected are used in several products.)
- On 5/19, TAGA is scheduled to perform mobile monitoring for oil dispersant compounds in Southern LA, MS, and AL.



# ACTION PLAN

for  
5/20-21/2010

- Brooks McCall Monitoring of Subsurface Dispersant Application
- Water Sampling conducted in oil impacted areas such as Terrebonne Bay
- TAGA deployed to southeast Louisiana to follow up on odor complaints and to monitor near oil impacted areas
- ASPECT available for monitoring burning
- Air Samples from 6 locations
- Receive final comments on Joint Sample Plan
- Complete review of alternative dispersants



# NEEDED SUPPORT

for

5/20/2010

- Funding for expanded Sample Plan is uncertain. Expanded PRFA is needed
- Additional research vessel may be needed for subsurface dispersant monitoring